PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

not assigned

Filing Date:

not assigned

Applicant:

Gregg et al

Group Art Unit:

not assigned

Examiner:

not assigned

Title:

Blended Leading and Trailing Edge Wing Planform

Attorney Docket:

7784-000593

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A Submitted herewith is a legible copy of (i) each U.S. patent applicatio
publication and U.S. and foreign patent; (ii) each publication or that portion whic
caused it to be listed; (iii) for each cited pending U.S. application, the applicatio
specification including the claims, and any drawing of the application whic
caused it to be listed including the claims directed to that portion; and (iv) a
other information or that portion which caused it to be listed.

B. ____ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

	C. X Because the present app copies of the U.S. patents or U.s on the attached Form 1449 are § 1.98(a)(2)(i). Any foreign pat the attached Form 1449 are enc	S. patent application publication publication publication in the enclosed pursuant to the ent documents or non-pate	ations which are listed waiver of 37 C.F.R.
	D This is a PCT application States. A copy of the Internation information. The documents list on the attached Form-1449 for any patent resulting from this against was from the US, EPO, or JPC should have been supplied to the believed to be in the file of the all	nal Search Report is attach ted on the International Se consideration by the Exam oplication. Since the Intern D search authorities, copie te USPTO under the trilater	ned for the Examiner's arch Report are listed iner and for listing on ational Search Report s of these references ral agreement and are
III.	CONCISE EXPLANATION OF T	HE RELEVANCE (check <u>a</u>	t least one box)
	A Except as may be indicor other information are in the required).	ated below in (B), all of the ne English language (con	e patents, publications acise explanation not
	B A concise explanation other information listed that is n C.F.R. § 1.98(a)(3)):	of the relevance of each oot in the English language	patent, publication or is as follows (see 37
	1See the attached counterpart foreign 2English translation 3Other:		mmunication from a
	CThe following addition consideration.	al information is provided	d for the Examiner's
IV.	CROSS REFERENCE TO RELA	ATED APPLICATION(S)	
	AThe Examiner is advise contain(s) subject matter that is bringing this(these) application does(do) not waive the confident	may be related to the pre n(s) to the Examiner's a	sent application. By attention, Applicant(s)
	Serial No.	Filing Date	Art Unit
V.	THIS IDS IS BEING FILED UND	<u>ER</u>	
	A37 C.F.R. § 1.97(b): (che	eck <u>only</u> one box)	

than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2 within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)) No fee or certification is required.
3 before the mailing of a first Office Action on the merits (37 C.F.R § 1.97(b)(3)). No fee or certification is required. In the event that a firs Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposi account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
4 before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee of certification is required.
B 37 C.F.R. § 1.97(c) : (check <u>only</u> one box)
before the mailing date of either any Final Office Action under 37 C.F.R § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action tha otherwise closes prosecution.
 No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2See the certification below. No fee is required.
C37 C.F.R. § 1.97(d):
after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
1See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
The undersigned hereby certifies that:
A each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII if applicable; or

VI.

no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. ____Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. STATEMENT UNDER 37 CFR 1.704(d) The undersigned hereby states that: ___ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. PAYMENT OF FEES (check only one box) A. ____ A check in the amount of \$180.00 is enclosed for the above-identified fee. B. ____Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

the above-indicated fee. A duplicate copy of this paper is attached.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

VII.

VIII.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: November 19, 2003

Mark D. Elchuk, Reg. No. 33,686

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600 MDE/jo

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.
7784-000593	not assigned
APPLICANT	
Gregg et al	
FILING DATE	GROUP
not assigned	not assigned

U.S. P	U.S. PATENT DOCUMENTS					
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		D456,337S	04/2002	Sankrithi et al		
2.		5,909,858	06/1999	Hawley		
3.		4,176,812	12/1979	Baker		
4.		.5,348,253	09/1994	Gratzer		
5.		5,893,535	04/1999	Hawley		
6.		6,547,181 B1	04/2003	Hoisington et al		
7.		6,568,632 B2	05/2003	Page et al		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	on No
1.							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials			
1.		"Blended-Wing-Body: Design Challenges for the 21st Century" presentation by Al Bowers at The Wing Is The Thing (TWITT) Meeting September 16, 2000.		
2.		"The Blended-Wing-Body" NASA Facts; FS-1997-07-24-LaRC; July 1997.		
3.		"Phantom Works Blended Wing Body (BWB)" publication Boeing 8/7/02.		
4.		"The Blended-Wing-Body" NASA Facts; FS-2001-04-24-LaRC, 8/7/02.		
5.		Wingco Atlantic 8/7/02.		
6.		"How Flying Wings Will Work" from http://www.howstuffworks.com/flying-wing2.htm 8/7/02.		

Examiner:	Date Considered:

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Sheet 2 of 2

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